

## Michigan Technological University

### Minor in Cybersecurity

Program Code TCYM, Academic Year 2022-23

College of Computing

Total Credits Required: 18

#### Required Courses: 6 Credits

- CS 1111\* Introduction to Programming in C/C++ (3) *Prereqs: none*
  - or CS 1142 Programming at the Hardware Software Interface(3) *Prereqs: CS1122 or CS1131*
  - or MIS 2100 Introduction to Business Programming (3) *Prereqs: none*
- SAT 3812\*\* Cybersecurity I (3) *Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100 or EET2241*

#### Required Course: Select two or more courses for 6 to 12 credits

- CS 4471 Computer Security (3) *Prereqs: CS3411 or CS4411*
- EE 4723 Network Security (3) *Prereqs: EE4272 or CS4461 or SAT4812*
- MA 3203 Intro to Cryptography (3) *Prereqs: MA2320 or MA2321 or MA2330*
- SAT 4812 Cybersecurity II (3) *Prereqs: SAT3812*

#### Elective Courses: Select 0 to 6 credits not already taken

- CS 3425 Introduction to Database Systems (3) *(Prereqs: CS2311 or MA3210) and CS2321*
  - or MIS 3100 Business Database Management (3) *Prereqs: MIS2000*
  - or SAT 3210 Database Management (3) *Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100*
- CS 3712 Software Quality Assurance (3) *Prereqs: CS3141*
- CS 4411 Operating Systems (3) *Prereqs: CS3331 and CS3421*
- CS 4431 Computer Architecture (3) *Prereqs: CS3421*
- CS 4461/EE 4272 Computer Networks (3) *Prereqs: CS3411*
- CS 4471 Computer Security (3) *Prereqs: CS3411 or CS4411*
- CS 4710 Model-Driven Software Development (3) *Prereqs: CS3311 and CS3141*
- EE 4173 Computer System Engineering and Performance (3) *Prereqs: CS3421 and EE3173*
- EE 4723 Network Security (3) *Prereqs: EE4272 or CS4461 or SAT4812*
- EE 5365 In-Vehicle Communication Networks (3) *Prereqs: EE3250 or EE4250*
- MA 3203 Intro to Cryptography (3) *Prereqs: MA2320 or MA2321 or MA2330*
- MIS 4200 Management of Cyber Security (3) *Prereqs: MIS2000 or CS1111 or CS1121 or CS1131*
- SAT 2711 Linux Administration I (4) *Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100*
- SAT 3310 Scripting for Administration and Automation (4) *Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100*
- SAT 3820 Wireless System Administration (4) *Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100*
- SAT 4816 Digital Forensics (3) *Prereqs: SAT3812*

\*Must be enrolled in one of the following Major(s): Computer Network & System Administration, Electrical Engineering, Audio Production & Technology; Must be enrolled in one of the following classes: Freshman, Sophomore

\*\*Must be enrolled in one of the following Class(es): Junior, Senior